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JP1316339A2: LIQUID CRYSTAL SUBSTANCE

Country:

JP Japan

🕏 Kind:

Α

SUZUKI GIICHI;

KAWAMURA ICHIRO; **MOGAMITANI HIROYUKI**;

PAssignee:

SHOWA SHELL SEKIYU KK

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Published / Filed:

Dec. 21, 1989 / Feb. 23, 1989

PApplication

郞IPC Code:

Number:

JP1989000041845

C07C 43/20; C07C 69/92; C07C 69/94; C09K 19/20; C09K 19/30;

Priority Number:

Feb. 26, 1988 JP1988000042215

PAbstract:

NEW MATERIAL: A liquid crystal substance of benzyl phenylether structure shown by formula 1 [R is 1-20C alkyl or alkoxy; R* is optically active group and contains asymmetric carbon atom; X is group shown by formula II or formula III; I is 1-3: R' is H or lower alkyl; Y is -COO- or -O-; (A) and (B) are each independently group shown by formula IV-formula VII, etc.; further when (A) is group shown by formula VII, (B) and X are each single bond].

EXAMPLE: [(+)-1,1,1-Trifluoro-2-decyl-4-(4'-octyloxybiphenyl-4"-

methyleneoxy) benzoate].

USE: Useful as a component for liquid crystal composition or electric display element having photochemical and chemical stability and large spontaneous polarization, showing high-speed response and applicable to optical switching, etc.

PREPARATION: For example, a compound shown by formula VIII as a starting raw material is processed through a compound shown by formula IX to give a compound shown by the formula I.

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PFamily: Show 7 known family members

§ Forward References:

PDF	Patent	Pub.Date	Inventor	Assigne	Titl
2	US6267910	2001-07-31	Hayashi; Hitoshi		Antiferroelectric liquid c composition
			Mine;	Mitsubishi Gas	Optically active seconda



23	<u>US6239316</u>	2001-05-29	Takakiyo	Chemical Company Inc	alcohol and process for production thereof
72	US6133469	2000-10-17	Mine; Takakiyo	Mitsubishi Gas Chemical Company	Anti-ferroelectric liquid (
28	US6129859	2000-10-10	Hijikata; Yoshimasa	Nippon Soken, Inc.	Antiferroelectric liquid c composition
Z.	US6103517	2000-08-15	Mine; Takakiyo	Mitsubishi Gas Chemical Company	Process for the product optically active alcohol a novel optically active alcohol
28	US6002042	1999-12-14	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Liquid crystal compound
X.	<u>US5976409</u>	1999-11-02	Mineta; Hiroshi	Mitsubishi Gas Chemical Company, Inc.	Swallow-tail-shaped liquerystal compound
22	US5972242	1999-10-26	Takigawa; Kenji	Denso Corporation	Smectic liquid crystal composition and liquid display
2	US5968413	1999-10-19	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Anti-ferroelectric liquid (compounds
Æ	<u>US5955001</u>	1999-09-21	Takigawa; Kenji	Nippon Soken, Inc.	Antiferroelectric liquid c composition and liquid c indicating element
E.	<u>US5942646</u>	1999-08-24	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Optically active alcohol process for the producti thereof
Æ	US5723069	1998-03-03	Mineta; Hiroshi	Mitsubishi Gas Chemical Company, Inc.	Anti-ferroelectric liquid of compound and anti-ferroliquid crystal compositic
7 E	<u>US5716545</u>	1998-02-10	Kikuchi; Katsuhide	Nippon Soken, Inc.	Antiferroelectric liquid c composition
2	<u>US5705094</u>	1998-01-06	Takeuchi; Akira	Nippon Soken, Inc.	Antiferroelectric liquid c composition and liquid c display element using the
22	<u>US5700392</u>	1997-12-23	Kikuchi; Katsuhide	Nippon Soken, Inc.	Antiferroelectric liquid c composition
22	<u>US5676881</u>	1997-10-14	Takigawa; Kenji	Nippon Soken Inc.	Antiferroelectric liquid c composition
7.7	<u>US5330678</u>	1994-07-19	Okabe; Nobuhiro	Showa Shell Sekiyu Kabushiki Kaisha	Liquid crystal compound

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